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Michael Hill (mikehill@virginia.edu) and **Kyle Ormsby*** (ormsbyk@reed.edu). *Connective, effective, and essential covers in motivic homotopy theory*. Preliminary report.

Voevodsky introduced the effective filtration of the stable motivic homotopy category and used it to construct the (effective) slice spectral sequence for algebraic K -theory. This spectral sequence can be viewed as a machine for converting Milnor K -theory into algebraic K -theory. Adapting the two-variable Whitehead tower of Levine-Pelaez, we introduce the *essential* filtration of the stable motivic homotopy category. Taking the essential cover of Hermitian K -theory \mathbf{KO} produces a spectrum \mathbf{ko} whose cohomology is $A//A(1)$. Moreover, it appears that the essential slice spectral sequence for \mathbf{KO} interpolates between Milnor-Witt K -theory and Hermitian K -theory. (Received September 01, 2014)